



ICAO ENGINE EXHAUST EMISSIONS DATA SHEET

SUBSONIC ENGINES

ENGINE IDENTIFICATION: GP7270 BYPASS RATIO: 8.7
 UNIQUE ID NUMBER: 9EA001 PRESSURE RATIO (π_{co}): 36.6
 COMBUSTOR:
 ENGINE TYPE: TF RATED THRUST (F_{oo}) (kN): 332.4

REGULATORY DATA

CHARACTERISTIC VALUE:	HC	CO	NO _x	SMOKE NUMBER
D_p/F_{oo} (g/kN) or SN	6.9	46.2	61.8	5.2
AS % OF ORIGINAL LIMIT	35.4	39.1	54.6	30.7
AS % OF CAEP/2 LIMIT (NO _x)			68.2	
AS % OF CAEP/4 LIMIT (NO _x)			77.0	
AS % OF CAEP/6 LIMIT (NO _x)			85.6	
AS % OF CAEP/8 LIMIT (NO _x)			97.5	

DATA STATUS

- PRE-REGULATION
 x CERTIFICATION
 - REVISED (SEE REMARKS)

TEST ENGINE STATUS

- NEWLY MANUFACTURED ENGINES
 x DEDICATED ENGINES TO PRODUCTION STANDARD
 - OTHER (SEE REMARKS)

EMISSIONS STATUS

x DATA CORRECTED TO REFERENCE
 (ANNEX 16 VOLUME II)

CURRENT ENGINE STATUS

(IN PRODUCTION, IN SERVICE UNLESS OTHERWISE NOTED)
 x OUT OF PRODUCTION (DATE: -)
 - OUT OF SERVICE (DATE: -)

MEASURED DATA

MODE	POWER SETTING (% F_{oo})	TIME (minutes)	FUEL FLOW (kg/s)	EMISSIONS INDICES (g/kg)			SMOKE NUMBER
				HC	CO	NO _x	
TAKE-OFF	100	0.7	2.637	0.03	0.11	41.73	4.1
CLIMB OUT	85	2.2	2.169	0.03	0.09	31.37	3.9
APPROACH	30	4.0	0.711	0.07	1.27	12.90	2.2
IDLE	7	26.0	0.234	4.04	33.58	5.24	3.1
LTO TOTAL FUEL (kg) or EMISSIONS (g)			932	1498	12497	17713	-
NUMBER OF ENGINES				1	1	1	1
NUMBER OF TESTS				3	3	3	3
AVERAGE D_p/F_{oo} (g/kN) or AVERAGE SN (MAX)				4.5	37.6	53.3	4.1
SIGMA (D_p/F_{oo} in g/kN, or SN)				0.3	1.1	0.3	0.7
RANGE (D_p/F_{oo} in g/kN, or SN)				4.17-4.77	36.35-38.46	53.06-53.65	3.28-4.56

ACCESSORY LOADS

POWER EXTRACTION 0 (kW) AT All POWER SETTINGS
 STAGE BLEED 0 (% CORE FLOW) AT All POWER SETTINGS

ATMOSPHERIC CONDITIONS

BAROMETER (kPa)	97.4-97.8
TEMPERATURE (K)	287.7-296.1
ABS HUMIDITY (kg/kg)	0.00503-0.00863

FUEL

SPEC	Jet A-1
H/C	1.94
AROM (%)	16.8-17.6

MANUFACTURER: Engine Alliance
 TEST ORGANIZATION: General Electric Peebles Test Operation
 TEST LOCATION: Site 4D
 TEST DATES: 28/05/2005-29/05/2005

NO_x REGULATION PARAGRAPH

	2.3.2 c) (CAEP/4)
	2.3.2 d) (CAEP/6)
x	2.3.2 e) (CAEP/8)

REMARKS

- GE Aviation Reports R2005AE431 and R2006AE504 Engine serial number 550-007/1
- Certification in accordance with Part III, Chapter 2, of Amendment 7 of ICAO Annex 16 Vol. II.
- NO_x levels in accordance with Part III, Chapter 2, 2.3.2 e)

Compliance with Fuel Venting requirements:

x ('x' if complies, 'PR' if pre-regulation, '- ' if information is not available)